

IFW 1753



Docket No.: 13571-00001-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Neil C. Bruce et al.

Application No.: 10/541,670

Confirmation No.: 3472

Filed: December 30, 2005

Art Unit: 1753

For: IONIC LIQUIDS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Examiner is hereby directed to the references listed on the attached PTO/SB/08. Required copies of references cited are enclosed. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

In accordance with 37 CFR § 1.97(h), the filing of this Information Disclosure Statement shall not be construed as an admission that the information cited is, or is considered to be, material to patentability as defined in 37 CFR § 1.56(b).

In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98.

Because this Information Disclosure Statement is filed within three months of the filing date of a national application, within three months of date of entry of the national stage, before

the mailing of a first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination, no fee is believed due. If any fees are due in connection with the filing of this response, including any fees that may be required under 37 CFR § 1.97(c), the Commissioner is authorized to charge such fees or credit any overpayment to Deposit Account No. 03-2775, under Order No. 13571-00001-US.

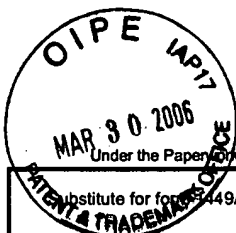
Respectfully submitted,

By


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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete If Known		
			Application Number	10/5416710-Conf. #3472	
			Filing Date	December 30, 2005	
			First Named Inventor	Neil C. Bruce	
			Art Unit	1753	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	2	Attorney Docket Number	13571-00001-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA*	US-2004/0096932	05-20-2004	Kragl et al.	
	AB*	US-6,900,313	05-31-2005	Wasserscheid et al.	

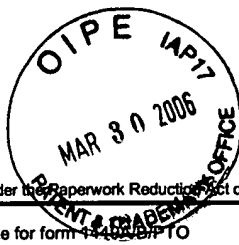
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	EP-1 205 555	05-15-2002	Solvent Innovation GmbH	See US 2004/0096932	
	BB	WO-01/55060	08-02-2001	Solvent Innovation GmbH	See US 6,900,313	
	BC	CN-1 417 407-A	05-14-2003	Inst Chem Chinese Acad Sci	See Abstract	

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	CA	Sheldon, R. A. et al., "Biocatalysis In Ionic Liquids", Green Chemistry, 4, 2002, pp. 147-151.			
	CB	Kaftzik, N. et al., " Use Of Ionic Liquids To Increase The Yield And Enzyme Stability In The β -Galactosidase Catalysed Synthesis Of N-Acetylglucosamine", Organic Process Research & Development, 6 (4), 2002, pp. 553-557.			
	CC	Wasserscheid, P. et al., "Synthesis And Properties Of Ionic Liquids Derived From The 'Chiral Pool' ", Chemical Communications, 2002, pp. 200-201.			
	CD	Howarth, J. et al., "Immobilized Baker's Yeast Reduction Of Ketones In An Ionic Liquid, [bmim]PF ₆ And Water Mix", Tetrahedron Letters 42, 2001, pp. 7517-7519.			
	CE	Kragl, U. et al., "Enzyme Catalysis In Ionic Liquids", Current Opinion in Biotechnology, 13 (6), 2002, pp. 565-571.			
	CF	Sheldon, R., "Catalytic Reactions In Ionic Liquids", Chemical Communications (23), 2001, pp. 2399-2407.			
	CG	Sheldon, R. A. et al., "Overview Of Biocatalysis In Ionic Liquids", Abstracts of Papers American Chemical Society, 224 (1-2), 2002, page IEC 100, 224th National Meeting of the American Chemical Society, Boston, MA.			
	CH	Gordon, C. M., "New Developments In Catalysis Using Ionic Liquids", Applied Catalysis A: General, 222 (1-2), (2001), pp. 101-117.			
	CI	Hari Krishna, S., "Developments And Trends In Enzyme Catalysis In Nonconventional Media", Biotechnology Advances, 20 (3-4), 2002, pp. 239-266.			
	CJ	Van Rantwijk, F. et al., "Biocatalytic Transformations In Ionic Liquids", Trends in Biotechnology, 21 (3), 2003, pp. 131-138.			
	CK	Holbrey, J. D. et al., "New Ionic Liquids Containing An Appended Hydroxyl Functionality From The Atom-Efficient, One-Pot Reaction Of 1-methylimidazole And Acid With Propylene Oxide".			

Examiner Signature		Date Considered	
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				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	13571-00001-US

		Green Chemistry, 5 (6), 2003, pp. 731-736.	
CL		Wasserscheid, P., "Recent Developments In Using Ionic Liquids As Solvents And Catalysts For Organic Synthesis", Organic Synthesis Highlights, V, 2003, pp. 105-117.	
CM		Park, S. et al., "Biocatalysis In Ionic Liquids - Advantages Beyond Green Technology", Current Opinion In Biotechnology, 14 (4), 2003, pp. 432-437.	
CN		Walker, A. J. et al., "Combined Biological And Chemical Catalysis In The Preparation Of Oxycodone", Tetrahedron, 60 (3), 2004, pp. 561-568.	
CO		Laszlo, J. A. et al., "α-Chymotrypsin Catalysis In Imidazolium-Based Ionic Liquids", Biotechnol. Bioeng., 75 (2), 2001, pp. 181-186.	
CP		Madeira Lau, R. et al., "Lipase-Catalysed Reactions In Ionic Liquids", Organic Letters, 2 (26), 2000, pp. 4189-4191.	
CQ		Cull, S. G. et al., "Room-Temperature Ionic Liquids As Replacements For Organic Solvents In Multiphase Bioprocess Operations", Biotechnol. Bioeng., 69, 2000, pp. 227-233.	
CR		Erbeldinger et al., "Enzymatic Catalysts Of Formation Of Z-Aspartame In Ionic Liquid", Biotechnol. Prog., 16 (6), 2000, pp. 1129-1131.	
CS		Koel, M. et al., "Physical and Chemical Properties Of Ionic Liquids Based On The Dialkylimidazolium Cation", Proc. Estonian Akad. Sci. Chem., 49 (3), 2000, pp. 145-155.	
CT		Fuller, J. et al., "Structure Of 1-Ethyl-3-Methylimidazolium Hexafluorophosphate: Model for Room Temperature Molten Salts", J. Chem. Soc., Chem. Comm., 1994, pp. 299-300.	
CU		Branco, L. et al., "Preparation And Characterization Of New Room Temperature Ionic Liquids", Chem. Eur. J., 8 (16), 2002, pp. 3671-3677.	
CV		Yoshizawa et al., "Ion Conduction In Zwitterionic-Type Molten Salts And Their Polymers", J. Mater. Chem., 11, 2001, pp. 1057-1062.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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Application No. (if known): 10/541670

Attorney Docket No.: 13571-00001-US

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